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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:	10/802,539	Confirmation No.:	4710
Applicant:	Andrew Longacre, Jr. et al.		
Filed:	March 16, 2004		
Art Unit:	2876		
Examiner:	Le, Thien Minh		
Docket No.:	703-006.50.21		
Customer No.:	20874		

Old Title: Optical Reader Comprising Illumination Assembly And Solid State Image Sensor

New Title: Optical Reader Device Reading Bar Code Symbols

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AMENDMENT AFTER ALLOWANCE

Sir:

In response to the Notice of Allowance of December 19, 2005 please amend the above identified application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks/Arguments begin on page 8 of this paper.

Amendments to the Specification:

Attached please find a Substitute Specification. Also attached is a Marked Up Specification to show changes.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-24 (Previously cancelled without prejudice or disclaimer).

25. (Previously Presented) A method for operating a bar code reader system having at least a first hand held bar code reader and a host processor spaced apart from said first hand held bar code reader, wherein said first hand held bar code reader includes a memory, said method comprising the steps of:

(a) providing programming data for programming said first hand held bar code reader at said host processor;

(b) encoding with use of said host processor at least one bar code symbol, said at least one bar code symbol being encoded such that when said at least one bar code symbol is read by said second hand held bar code reader, said programming data provided at said host processor is loaded into said memory of said second hand held bar code reader;

(c) outputting said at least one bar code symbol encoded at step (b), wherein said outputting includes the step of displaying a bar code symbol on a computer display; and

(d) reading using said first hand held bar code reader said at least one bar code symbol output at step (c) so that said first hand held bar code reader is reprogrammed.

26. (Previously Presented) The method of claim 25, wherein said at least one bar code symbol is a single bar code symbol.

27. (Previously Presented) The method of claim 25, wherein said at least one bar code symbol is a series of bar code symbols.

28. (Previously Presented) The method of claim 25, wherein said at least one bar code symbol is a single two-dimensional bar code symbol.

29. (Previously Presented) The method of claim 25, wherein said programming data when received by said first hand held bar code reader changes a manner in which said first hand held reader is reprogrammed.

30. (Previously Presented) The method of claim 25, wherein said outputting step includes the step of outputting said at least one bar code symbol to a CRT display.

31. (Previously Presented) The method of claim 25, wherein said method further includes the step of reading using a second bar code reading device said at least one bar code symbol output at step (c).

32. (Currently Amended) A system for cloning a bar code reading device operating in a system that includes a plurality of bar code reading devices, said system comprising:

a first bar code reading device having an imaging assembly and a housing adapted to be grasped by a human hand, said imaging assembly being ~~supporting~~ supported within said housing;

a second bar code reading device also having an imaging assembly and a housing adapted to be grasped by a human hand;

a host processor spaced apart from said first bar code reading device and said second bar code reading device and having a printer adapted to print bar code symbols, said system being configured to encode data into a bar code symbol format that is decodable with use of said second bar code reading device; and

wherein said first hand held bar code reading device is configured so that in response to a user-input command input using said first bar code reading device and initiated by depressing an actuator of said first bar code reading device, said first ~~hand-held~~ bar code reading device causes said printer to print a reprogramming bar code symbol that contains all information necessary to cause said second bar code reading device to operate in the same manner as said first bar code reading device.

33. (Previously Presented) The system of claim 32, wherein said system is configured

so that said actuator of said first bar code reading device that is depressed to initiate said user-initiated command is a trigger.

34. (Previously Presented) The system of claim 32, wherein said system is configured so that said user-input command is initiated by depressing said actuator, wherein said actuator is provided by a trigger and wherein said depressing of said trigger causes a cloning function encoded programming symbol to be read which is configured in a manner complementary with said bar code reading device so that when said bar code reading device reads said cloning function encoded programming symbol, said bar code reading device is caused to print a cloning bar code symbol.

35. (Previously Presented) The system of claim 32, wherein said imaging assembly of said first bar code reading device includes a two dimensional solid state image sensor.

36. (Previously Presented) The system of claim 32, wherein said imaging assembly of said first bar code reading device includes an image sensor.

37. (Previously Presented) The system of claim 32, wherein said first bar code reading device includes and on-reader display.

38. (Currently Amended) A method for cloning a bar code reading device operating in a system that includes a plurality of bar code reading devices and a spaced apart host processor including a printer, wherein said system is configured to encode data into a bar code symbol, said method comprising the steps of:

providing a first bar code reading device including a first imaging assembly and a first housing adapted to be grasped by a human hand, said first imaging assembly being ~~supporting~~ supported within said first housing;

further providing a second bar code reading device including a second imaging assembly and a second housing adapted to be grasped by a human hand, said second imaging assembly being supporting within said second housing; and

initiating by depressing an actuator of said first bar code reading device a command that causes said printer to print a reprogramming bar code symbol that contains all information necessary to cause said second bar code reading device to operate in the same manner as said first bar code reading device.

39. (Previously Presented) The method of claim 38, wherein said initiating step includes the step of depressing a trigger to read a programming bar code symbol.

40. (Previously Presented) The method of claim 38, wherein said initiating step includes the step of depressing a trigger.

41. (Previously Presented) The method of claim 38, wherein said providing step includes the step of providing an image sensor.

42. (Previously Presented) A reprogrammable bar code reading device for operation in a bar code reading system including a host processor in wireless communication with said bar code reading device over a radiofrequency communication link between said bar code reading device and host processor device said reprogrammable bar code reading device comprising:

an imaging assembly comprising a two dimensional solid state image sensor and an imaging lens focusing an image of a target onto said two dimensional image sensor;

a housing adapted to be grasped by a human hand, said imaging assembly being supported within said housing;

a memory for storing image data;

a trigger, wherein said reprogrammable bar code reading device is configured so that actuation of said trigger causes image data to be stored into said memory; and

reprogramming circuitry incorporated into said bar code reading device enabling said bar code reading device to be reprogrammed either by receipt of programming data over said radiofrequency communication link or by processing of memory stored image data stored in said memory, wherein said memory stored image data is representative of a programming

symbol encoded to cause reprogramming of said bar code reading device when decoded by said bar code reading device.

43. (Previously Presented) The reprogrammable bar code reading device of claim 42, wherein said reprogrammable bar code reading device is configured to read two dimensional programming symbols.

44. (Previously Presented) The reprogrammable bar code symbol of claim 42, wherein said reprogrammable bar code reading device is configured to read one dimensional programming symbols.

45. (Currently Amended) The reprogrammable bar code symbol of claim 42, wherein said two dimensional image sensor comprises a plurality of rows and plurality of columns of pixels[[.]]

Remarks

The present Amendment After Allowance is being filed to make minor amendments to the claims and specification.

The applicants amend the specification so that the specification is more consistent with the claims. While limitations from a specification are not to be imported into the claims, applicants wish to further emphasize, by reformatting the specification and amending certain language in the manner indicated in the attached marked up version of the substitute specification, that limitations from the specification are not to be imported into the claims. The Examiner will appreciate that the lengthy specification describes numerous inventions, not all of which are recited in the claims. It will be noted that the title of the application has been changed by amendment.

The specification amendments are presented in the form of a substitute specification so that consideration of the amendment is simplified. The specification includes an amended priority claim deleting the benefit claims to U.S. Patent Application No. 10/227,889 filed August 26, 2002 and U.S. Patent Application No. 09/651,162 filed August 30, 2000. The amended priority claims recite that the application is a divisional claiming priority directly to pending U.S. Patent Application No. 09/385,597 and to parent applications of U.S. Patent Application No. of 09/385,597 through U.S. Patent Application No. 09/385,597 without the intervening priority claims to U.S. Patent Application Nos. 10/227,889 and 09/651,162. The Office of Patent Legal Administration (Terry Dey, telephone conference December 22, 2005) has confirmed that a priority claim revision of the type requested is appropriate under MPEP §201.11. See especially MPEP §201.11 III(G) and MPEP §201.11 V. The substitute specification also addresses a one digit transposition informality in the reference to U.S. Patent Application No. 08/914,883. Notwithstanding the one digit transposition, applicants believe that U.S. Patent Application No. 08/914,883 was clearly referenced by the applicants in the specification in view of the context of the disclosure. The Examiner will further note that the patent specification document of U.S. Patent Application No. 08/914,883 has been

copied into the specification and is also incorporated by reference in the specification with reference to U.S. Patent Application No. 08/516,185, the file wrapper associated FWC parent of U.S. Patent Application No. 08/914,883 (see column 2 of U.S. Patent No. 5,900,613 and column 2 of U.S. Patent No. 5,965,863. The Examiner is requested to contact the applicants' representative if the designation of the present application as a "divisional" of U.S. Patent Application No. 09/385,597 is deemed inappropriate. *See* 37 C.F.R. §201.06.

No amendment to the claims or specification contains new matter. In that it is believed that no claim amendment affects the scope of any claim it is believed that the amendments should not alter the determination that the claims are patentable and also should not require additional searching. The amendments presented herein were not presented earlier since the review leading to the determination that the presented amendments would improve the presentation of the application, or would otherwise be desirable, was not completed until after the close of prosecution.

If the Examiner believes that contact with applicants' attorney would be advantageous toward the disposition of this case, the Examiner is herein requested to call applicants' representative at the phone number listed below.

The Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to deposit Account No. 50-0289.

Respectfully submitted,

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Date: December 29, 2005

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